



VERSION WITH MARKINGS TO SHOW CHANGES MADE

Please show the changes to the table at page 3, lines 1-6 as follows:

5 **Table 2.**
LOCATION OF DISULFIDE LOOP IN STAPHYLOCOCCUS
ENTEROTOXINS

ENTEROTOXIN	AMINO ACID RESIDUES	AMINO ACID SEQUENCE OF DISULFIDE LOOP
SEA	96-106	96?CAGGTPNKTAC (SEQ. ID. NO:9)
SEB	93-114	93?CYFSKKTNDINSHQTPKRKTC (SEQ. ID. NO:10)
SEC1	93-110	93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:11)
SEC2	93-110	93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:12)
SEC3 FRI 913	93-110	93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:13)
SEC3 FRI 909	93-110	93?CYFSSKDNVGKVTSGKTC (SEQ. ID. NO:14)
SEC 4446	93-110	93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:15)
SEC-Bovine	93-110	93?CYFSSKDNVGKVTGGKTC (SEQ. ID. NO:16)
SEC-Ovine	93-110	93?CCFSSKDNVGKVTGGKTC (SEQ. ID. NO:17)

Please show the changes to the table at page 18 as follows:

Table 3A.

Conserved Regions of Enterotoxin Molecules*

Region 1		Region 3	
Toxin	Residue #	Toxin	Residue #
SEA	79	SEA	147
SEB	76	SEB	152
SEC1	76	SEC1	151
SEC2	76	SEC2	151
SEC3	76	SEC3	151
SED	74	SED	142
SEE	76	SEE	144
SPEA	70	SPEA	137
SPEC	63	SPEC	124
TSST-1	56	TSST-1	121
		TSST-I 129	
		SEA	KKNVTVQELDLQARRYL (SEQ. ID. NO:28)
		SEB	KKKVTAAQELDYLTRHYL (SEQ. ID. NO:29)
		SEC1	KKSVTAQELDIKARNFL (SEQ. ID. NO:30)
		SEC2	KKSVTAQELDIKARNFL (SEQ. ID. NO:31)
		SEC3	KKSVTAQELDIKARNFL (SEQ. ID. NO:32)
		SED	KKNVTVQELDAQARRYL (SEQ. ID. NO:33)
		SEE	KKEVTVQELDLQARHYL (SEQ. ID. NO:34)
		SPEA	KKMVTAAQELDYKVRKYL (SEQ. ID. NO:35)
		SPEC	KDIVTFQEIDFKIRKYL (SEQ. ID. NO:36)
		TSST-1	KK----Q-L-I (SEQ. ID. NO:37)
			LDFEIRHQL (SEQ. ID. NO:38)

* From Hoffmann et al., *Infect Immunol* 62:3396 (1994).



Please show the changes to the table at page 20 as follows:

TABLE 4.
SEC1 LOOP MUTANTS

AMINO ACID #	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
SEC1 (wild type) AMINO ACID NUCLEIC ACID	Cys TGC	Tyr TAT	Phe TTT	Ser TCA	Ser TCC	Lys AAA	Asp GAT	Asn AAT	Val GTA	Gly GGT	Lys AAA	Val GTT	Thr ACA	Gly GGT	Gly GGC	Lys AAA	Thr ACT	Cys (SEQ. ID. NO:60) TGT (SEQ. ID. NO:59)
SEC1 Loop Deletion Mutants							301	-	306									
-4 A.A. MUTANT	Cys TGC	Tyr TAT	Phe TTT	Ser TCA	Ser TCC	Lys AAA	Asp GAT	Asn AAT	Ala GCA					Gly GGT	Gly GGC	Lys AAA	Thr ACT	Cys (SEQ. ID. NO:62) TGT (SEQ. ID. NO:61)
-9 A.A. MUTANT	Cys TGC	Tyr TAT	Phe TTT	Ser TCA	Ser TCC										Gly GGC	Lys AAA	Thr ACT	Cys (SEQ. ID. NO:64) TGT (SEQ. ID. NO:63)
-12 A.A. MUTANT	Cys TGC	Cys T--												GT	Gly GGC	Lys AAA	Thr ACT	Cys (SEQ. ID. NO:66) TGT (SEQ. ID. NO:65)